

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) An optical interconnection circuit, comprising:
a substrate;
a first element having a light emitting function fixed on the substrate by an adhesive;
a second element having a light receiving function fixed on the substrate by an adhesive; and
an optical wave-guide having an optical wave-guide member formed on the substrate to connect the first element and the second element through which a light emitted by the first element transmits to the second ~~element~~element,
the optical wave-guide being formed on the substrate to cover a part of the first element and a part of the second element, and the optical wave-guide having a function to transmit an optical signal emitted from the first element to the second element.
2. (Canceled)
3. (Original) The optical interconnection circuit claimed in claim 1,
the optical wave-guide member of the optical wave-guide being installed in a linear or planar manner on the substrate.
4. (Previously Presented) The optical interconnection circuit claimed in claim 1,
the optical wave-guide including a light scattering mechanism scattering light, and the optical wave-guide being installed in the vicinity of at least one of the first element and the second element.

5. (Original) The optical interconnection circuit claimed in claim 4,
the light scattering mechanism being composed of a resin into which a light scattering particle is mixed.
6. (Original) The optical interconnection circuit claimed in claim 4,
the light scattering mechanism being composed of a resin of which a surface is processed to comprise an irregularity thereon.
7. (Original) The optical interconnection circuit claimed in claim 4,
the light scattering mechanism being composed of the optical wave-guide member of which at least one of the line width and the height differ from the other part.
8. (Original) The optical interconnection circuit claimed in claim 4,
the light scattering mechanism being composed of at least one of a resin and a glass in which a light scattering particle is dispersed, and is dome-shaped.
9. (Original) The optical interconnection circuit claimed in claim 8,
the optical wave-guide member being formed to cover the dome-shaped light scattering mechanism.
10. (Currently Amended) The optical interconnection circuit claimed in ~~claim 2,~~claim 1,
the optical wave-guide including a light reflecting mechanism reflecting light, and the optical wave-guide being installed in the vicinity of at least one of the first element and the second element or on an edge part of the optical wave-guide member.
11. (Original) The optical interconnection circuit claimed in claim 10,
the light reflecting mechanism including a metal film formed on a surface of the optical wave-guide member.
12. (Original) The optical interconnection circuit claimed in claim 10,

the light reflecting mechanism being composed of the optical wave-guide member of which a surface is coated with a coating material including a metal particle.

13. (Original) The optical interconnection circuit claimed in claim 10,
the light reflecting mechanism including a reflection plate having a reflection plane attached to the edge part of the optical wave-guide member; and
the reflection plate being disposed to be inclined to the substrate.

14. (Original) The optical interconnection circuit claimed in claim 13,
the optical wave-guide member being formed into the shape of a plurality of lines, which are approximately parallel each other, on the substrate; and
the reflection plate being disposed on at least one edge of the plurality of lines, and being one common reflection plate reflecting light transmitting in each of the plural lines.

15. (Original) The optical interconnection circuit claimed in claim 1,
the optical wave-guide member being deposited on a metal wiring pattern installed on the substrate.

16. (Previously Presented) The optical interconnection circuit claimed in claim 1,
the thickness of the first element and the second element being twenty μm or less.

17. (Previously Presented) The optical interconnection circuit claimed in claim 1,
the first element being one of an LED, a surface emitting laser, and a DFB laser.

18. (Previously Presented) The optical interconnection circuit claimed in claim 1,
the second element being a surface photodiode or a phototransistor.

19. (Currently Amended) The optical interconnection circuit claimed in ~~claim 2~~,
claim 1,
a third element being stacked on the first element.

20. (Previously Presented) The optical interconnection circuit claimed in claim 19,

the third element including a detecting device that controls light emitted from the first element, and a controlling device that controls light emitting operation of the first element based on the detected quantity of emitted light.

21. (Previously Presented) The optical interconnection circuit claimed in claim 1, each of the first element and the second element being electrically connected to an electronic circuit installed on the substrate.

22. (Currently Amended) A method of manufacturing an optical interconnection circuit, comprising:

bonding a plurality of elements to a substrate; and

installing an optical wave-guide member on the substrate to connect at least two elements to each ~~other~~ other,

the optical wave-guide member being formed on the substrate to cover a part of a first element and a part of a second element, and the optical wave-guide having a function to transmit an optical signal emitted from the first element to the second element.

23. (Previously Presented) The method of manufacturing an optical interconnection circuit claimed in claim 22,

the plurality of elements including a first element emitting an optical signal and a second element receiving the optical signal; and

the optical wave-guide member being installed to transmit the optical signal emitted from the first element to the second element.

24. (Original) The method of manufacturing an optical interconnection circuit claimed in claim 22,

the optical wave-guide member being installed by coating the substrate and the micro tile element with a light curable resin, thereafter irradiating only an area of a desired pattern with light for patterning.

25. (Original) The method of manufacturing an optical interconnection circuit claimed in claim 22,

the optical wave-guide member being installed by coating the substrate and the micro tile element with a desired resin, thereafter using a photolithography method to pattern desired shape.

26. (Original) The method of manufacturing an optical interconnection circuit claimed in claim 24,

the coating being performed by using at least one of a spin coating method, a roll coating method, and a spray coating method.

27. (Original) The method of manufacturing an optical interconnection circuit claimed in claim 22,

the optical wave-guide member being installed by using a droplet ejecting method.

28. (Previously Presented) The method of manufacturing an optical interconnection circuit claimed in claim 27,

the optical wave-guide member being installed by installing a lyophobic area and a lyophilic area, which have a desired pattern, on the substrate and a surface of the plurality of elements, thereafter ejecting a resin onto the substrate and the plurality of elements by the droplet ejecting method.

29. (Original) The method of manufacturing an optical interconnection circuit claimed in claim 22,

the optical wave-guide member being installed by a pattern transferring method using a stamper.

30. (Original) The method of manufacturing an optical interconnection circuit claimed in claim 22,

the optical wave-guide member being installed by using a printing method.

31. (Original) The method of manufacturing an optical interconnection circuit claimed in claim 22,

the optical wave-guide member being installed by using a slit coating method in which a liquid resin is ejected from a slit-shaped gap.

32. (Original) An electro-optical device, comprising:

the optical interconnection circuit claimed in claim 1.

33. (Original) Electronic equipment, comprising:

the optical interconnection circuit claimed in claim 1.